

WIRELESS ROUTER AND METHOD FOR PROCESSING TRAFFIC IN A
WIRELESS COMMUNICATIONS NETWORK

5 ABSTRACT OF THE DISCLOSURE

 A wireless communications network includes a
wireless-specific router topology layer that connects
cellular sites to a wireline topology. The wireless-
specific router topology provides a distributed
10 architecture in which call processing including call
setup, resource preservation, air bandwidth allocation,
switching, soft handoff, and micromobility is performed
at the cell level. The wireless routers are technology
independent to support various cellular technologies.
15 The wireless router may include a first interface
operable to communicate wireless packets for a call with
a remote device and a second interface operable to
communicate wireline packets for the call with the
wireline network. A traffic controller is coupled to the
20 first and second interfaces and operable to convert
traffic between the wireless and wireline packets and to
route packets to a destination mobile or wireline device.
A selection and distribution unit is operable to select
and distribute traffic to support soft handoff for calls
25 in the wireless communications network.